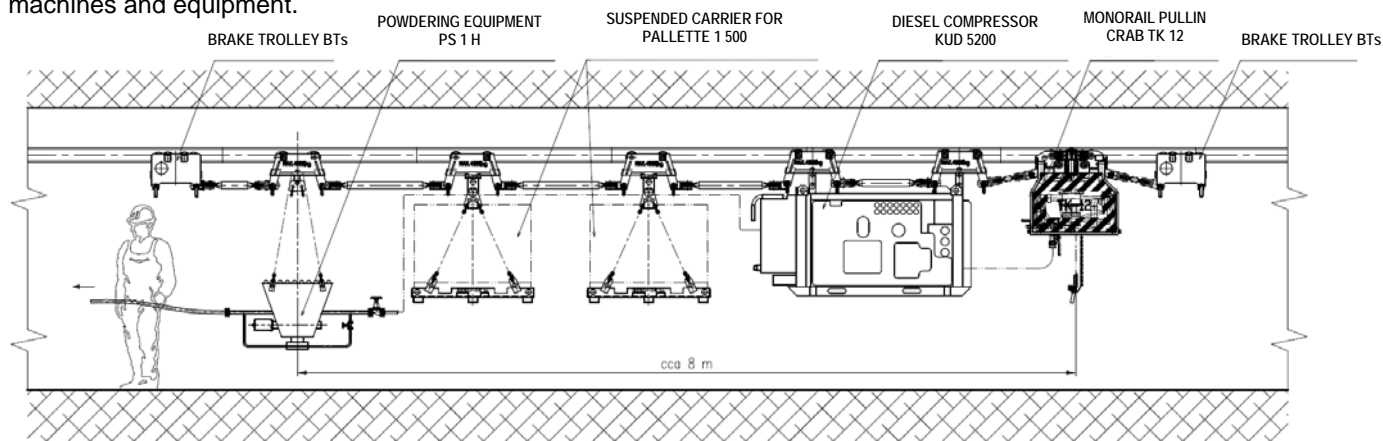


COAL MINE OPENING POWDERING SET PDC 1

Use and description:

Coal mine opening powdering set **PDC 1** (hereinafter only set) is intended for the powdering of the mine openings according to Public Notice 22/1989 Sb. It consists of equipments for transport of powder material on the monorail transport system and enables hand powdering operation. It embraces an explosion- proof diesel compressor KUD 5200 – source of the compressed air for pneumatic drives of the individual set equipment. As the drawing force source the monorail pulling crab TK 12 is used (drawing force 12 kN). In the set, behind the compressor type KUD 5200, the palette containers ZNP 1500 are hanged on the carrying trolleys. In the containers there are EURO palettes, on which the bags containing the powdering material are located. This material is taken off step by step and fed into the container of the powdering equipment PS 1 hanged on the rear carrying trolley. The powdering equipment operation is the same as the pneumatic transport. The powdering material is entrained by the air flow. With the hose ID 50 mm handled by the operator the powder is applied on the opening surface in the compliance with the requirements of the Public Notice. It is possible to control the quantity of the powder in the air. When operating the set in the inclined openings, the brake trolleys are in action. All set components are connected each other with connecting rods.

The advantage of this set is that no external energy source is necessary and the powdering operation is very rapid and effective. In some cases it is possible to use this set as a source of the compressed air for feeding pneumatic machines and equipment.



Characteristics:

Type		PDC 1
Max. air pressure.	MPa	0.7
Max. air feeding quantity	dm ³ .min ⁻¹	5 200
Drawing force at 0.4 MPa	kN	12
Max. velocity on horizontal line	m.min ⁻¹	24
Max. inclination	°	± 20°
Loading capacity of container for palette	kg	1 500.0
Powdering hose ID	mm	50
Technical output	m.hod ⁻¹	200

The product has been designed and constructed as the equipment group I (mine), category M2 according to the Directive 94/9/EC-ATEX of the European Parliament and of the Council and meets the requirements for using in areas "hazardous atmospheric conditions 2" according to EN 1127-2+A1 on condition that all national regulations of the employer are fulfilled.